



# HF Happenings 847

Volume 19, Issue 5, the week of 13 May 2019

You can now download your copy of HF Happenings from [www.sarl.org.za/hf\\_happenings.asp](http://www.sarl.org.za/hf_happenings.asp)

Southern African Fauna and Flora <https://zsfaunaandflora.wordpress.com/>

ZS SOTA <https://zssota.wordpress.com/>

Zone 38 Award and others <https://zone38award.wordpress.com/>

Worldwide List of HF Beacons <https://iaruhfbacons.wordpress.com/>

5 MHz (60 metre) allocations <http://www.sarl.org.za/public/contests/contestrules.asp>

## The ZS3 Sprint

This is a fun activity to promote contacts between radio amateurs in the Northern Cape and radio amateurs in Southern African countries as well to determine the most active club in the Northern Cape during the Sprint. The Sprint takes place from 14:00 to 15:00 UTC on Sunday 19 May 2019.



The exchange is RS or RST report and your provincial or country abbreviation. It is a phone and CW contest on the 40-metre band with CW activity between 7 000 and 7 040 kHz and phone activity between 7 063 and 7 100 kHz and between 7 130 and 7 200 kHz.

Scoring for ZS3 stations: QSOs with stations in ZS3 are worth 1 point and QSOs with stations in other ZS call areas or Southern African countries are worth 2 points.

Scoring for all other stations: QSOs with stations in ZS3 are worth 2 points and QSOs with stations in own or other ZS call areas (excluding ZS3) or Southern African countries are worth 1 point. QSOs with the Northern Cape ARC, ZS3NC, Namaqualand Aero Sport Association, ZS3FLY, the Bo-Karoo ARC, ZS3VDK, or the Kimberley Amateur Radio Club, ZS3KBY are worth 5 points each. Only one contact per station is allowed.

Scoring for ZS3 Clubs. Club scoring is determined by adding the QSOs made by the Club to the QSOs made by the members of that Club. Only contacts of Clubs and members (ZS3 members) of Clubs that submitted logs will be used for scoring.

Club scoring will be as follow: each contact made by the Club call sign are worth 5 points. Each contact made by a member (ZS3 Member) is worth 2 points and will multiplied by the amount of contacts on the members' log sheet. A club's total score will be its own score plus the scores of all its members (ZS3 Members) that submitted a log.

Logs, in ADIF, Cabrillo or MS Excell (available from the Contest Page on [www.sarl.org.za](http://www.sarl.org.za)) and labelled "my call sign ZS3 Sprint," must be submitted by 26 May 2019 to [zs3nc@qsl.net](mailto:zs3nc@qsl.net). A certificate will be awarded to the first, second and third place in

## May

15 – Wednesday 80 m Club Sprint;  
International Day of Families  
17 to 19 – Dayton Hamvention  
18 - May RAE (10:00 to 13:00 CAT)  
19 – ZS3 Sprint  
20 - Closing date for AWA Valve QSO  
Party logs  
21 - Highway ARC Monthly Meeting  
24 - Closing date for June Radio ZS  
24 and 25 - Stoep Tasting, Graaff-  
Reinet  
25 and 26 - CQ WPX CW contest  
30 - Ascension Day; start of the 2019  
Cricket World Cup (30 May to 14 July)  
31 – Republic Day

## June

1 - West Rand Flea Market  
3 to 5 -Footprint Festival, Morgan's  
Bay  
4 - Eid al-Fitr  
5 - World Environment Day  
7 - World Oceans Day  
7 to 17 - Hermanus Fynarts Festival  
8 - SARL VHF/UHF QSO Party  
9 - Pentecost; Hammies Sprint;  
Comrades Marathon  
14 - Provincial Schools close  
15 - SARL Youth Sprint  
16 - Youth Day; Father's Day;  
17 - Public holiday; World QRP Day;  
Closing date for Hammies logs;  
18 - Highway ARC monthly meeting  
20 to 24 - SARL Top Band QSO Party  
21 - Winter Solstice  
21 to 23 - Ham Radio 2019 in  
Friedrichshafen  
21 to 30 – Knysna Oyster Festival  
22 and 23 – ARRL Field Day  
26 to 30 - Innibos Fees, Nelspruit  
28 to 30 - Kirkwood Wildfees  
30 - End of the SARL Financial Year;  
International Asteroid Day

the competition.

### Contest University at Dayton

Not in Dayton this weekend? Courtesy of Icom, you will once again be able to watch some sessions from

Contest University on your computer on Thursday morning. These sessions are shown live. (*Thursday morning Dayton time!*) <http://lists.contesting.com/pipermail/cq-contest/2019-May/122710.html>.



### Word to the Wise

Stochastic Resonance - when a signal is too weak to be detected by a sensor, adding a small amount of white noise to the original signal can increase the chance that the signal is detected by increasing the signal above the detection threshold. The noise can be filtered out in later stages, after detection. This effect has been observed in electrical systems and is also believed to occur in some biological systems such as the human auditory system.

### N1MM

So simple even a computer can do it! Tuning an SSB signal isn't too difficult for a human, but like any task we might perform in a contest, it can take a little time and brain power. Tom, N1MM, posted a YouTube video of a potential new feature in the N1MM Logger+ spectrum display window to jump to the next/previous in-use SSB frequency [www.youtube.com/watch?v=mXhcnF-nlvc](http://www.youtube.com/watch?v=mXhcnF-nlvc) <http://n1mm.hamdocs.com/tiki-index.php?page=Spectrum+Display+Window>.

This looks like a great way to S&P on a different VFO while running without spending any effort on tuning. Conversely, if you want to find an empty frequency to run, Tom has a solution for that, too [www.youtube.com/watch?v=wWO7ON04PoA](http://www.youtube.com/watch?v=wWO7ON04PoA). Both of these features will be in *N1MM Logger+* shortly, if not already. As an aside, how long before someone just writes an app to use these tuning techniques, pipe the audio into a voice recognition engine to find phrases like "CQ Contest W7XYZ", spot the call sign part, and then move to the next in-use frequency?

### Summits on the Air

Sometimes you have to get outside your comfort zone to build new skills in pursuit of more contacts. Non-snowmobilers Josh, WU7H, and Darryl, WW7D, purchased and restored some almost-vintage "sleds" intending to reach SOTA (Summits on the Air) trailheads in the winter. Their first expedition was to the foothills around Mt. Rainier. You'll enjoy part one of their adventure in May-June 2019 PNW SOTA Newsletter

<http://www.pnwsota.org/sites/pnwsota.org/files/downloads/K7ATN/PNW%20SOTA%20Newsletter%20May-Jun%202019.pdf>.

### Operating Tip

Practice Continuous Improvement. What are you going to learn before the next contest, so that you can use it in the contest? Those that are often found in the top ten box, tend to always be looking for opportunities to improve their skills and techniques and ways to recognize and rid themselves of bad habits. Do 'hard work' before the contest to have more fun in the contest! [www.contestuniversity.com/wp-content/uploads/2018/05/3.-NOAX-Hints-Kinks-For-Operators.pdf](http://www.contestuniversity.com/wp-content/uploads/2018/05/3.-NOAX-Hints-Kinks-For-Operators.pdf)

### Feeding the Tower

Steve, VE6WZ, has made a video about the omega match he uses to feed his tower and "how it can transform the resistive component of the complex impedance of a shunt feed." At just about four minutes, it's a worthwhile watch [www.youtube.com/watch?v=NA-Kwr09j8M&feature=youtu.be](http://www.youtube.com/watch?v=NA-Kwr09j8M&feature=youtu.be).

## 2 x 6 Antenna Controller

Steve, W6PNG, is working on a 2 x 6 Antenna Controller based on an Arduino microcontroller as part of a suitcase DXpedition project <https://nomadic.blog/2019/04/25/suitcase-dxpedition-station-automation-part-3-an-arduino-based-2x6-antenna-switch-controller/> and <https://nomadic.blog/category/suitcase-dxpedition/>.

By building in support for the OTRSP (Open Two Radio Support Protocol), *N1MM Logger+* can already "talk" to it via USB to switch antennas right from the logger. Earlier articles discuss some of the design tradeoffs and sourcing of parts for the project <https://nomadic.blog/2019/01/09/suitcase-dxpedition-station-automation-part-2-an-arduino-based-so2r-controller/> and <https://nomadic.blog/2019/04/07/suitcase-dxpedition-2x6-antenna-switch/>

## African DX

*Contacts with stations on the African continent count towards the SARL's All Africa Award* ([www.sarl.org.za/public/awards/awards.asp](http://www.sarl.org.za/public/awards/awards.asp))

Ceuta And Melilla, EF9. Jorge, EA9LZ, will be active as EF9Z from Ceuta during the CQ WPX CW Contest on 25 and 26 May as a Single-Op entry. QSL via LoTW and EA5KB.



Eritrea 2019 DXpedition, E31A. The FGC Radio Team (E31A) will be active from the State of Eritrea between 25 May and 3 June. Zorro, JH1AJT, CEO of SEISA and FGC (Foundation for Global Children) and the team will be visit Eritrea to participate in the "Eritrean Independence Ceremony." The main purpose of this trip is to support the Eritrea National Olympic Committee (ENOC). The SEISA's group will "coordinate a pre-game training camp" for the Tokyo 2020 Paralympic Games and select students for a scholarship program at the SEISA Kokusai Junior High School and University.

Operators mentioned are Zorro, JH1AJT, Franz, DJ9ZB, David, WD5COV, Johannes, PA5X, Dima, RAUSU, Sergey, RZ9UN and Champ, E21EIC. Activity will be on 160 - 6 metres using CW, SSB and FT8 (F/H mode). During this trip, Zorro, JH1AJT, will not operate due to his health. But still always support the team. QSL via JH1AJT: Y. Zorro Miyazawa, PO Box 8 Oiso, Naka-Gun Kanagawa 259-0003, Japan. An OQRS will be available at ClubLog after his return to Japan. Support for the FGC (Foundation for Global Children) <http://www.fgc.or.jp/english>

Mauritania, 5T. Johannes, PA5X is now operating as 5T5PA from Nouadhibou until July. QSL via LoTW, Club Log and QRZ.com. More to follow.

Uganda, 5X. Anders, SM0PHL is once again operating as 5X7W from Kampala during his spare time. Operation on 20 metres using CW, FT8 and JT65 QRP. QSL via home call, LoTW and Club Log.

Botswana, A2. Leon, A25SL is active during his spare time on 80, 40, 20, 17 and 15 metres using CW, SSB and RTTY with some FT8. QSL via N4GNNR.

Guinea-Bissau, J5. Livio, IZ3BUR is again operating as J52EC. Operation on HF. QSL via home call. Livio is working as missionary so operation is only during his spare time.

South Sudan, Z8. Diya, YI1DZ is once again operating as Z81D from Juba. Activity from 80 to 10 metres using SSB and digital. Operation until June. QSL via OM3JW, OQRS.

Ghana, 9G. Matteo, IZ4YGS, will once again be active as 9G5GS from Sanzule, West Takoradi (Western Region), Ghana between 7 June and 2 July. Matt informed back in December that he travels to Ghana almost every month for work reasons. Activity will be limited to his spare time. He is usually on "almost every evening" on 160 to 6 metres with a FT-891, small 300 W amp and vertical antenna, using mostly



FT8 and SSB. On FT8 (fox and hound mode) the suggested frequencies are: 3 567, 7 056, 10 131 and 14 090 kHz. QSL via LoTW, IZ4YGS direct or eQSL.

Kingdom Of Eswatini, 3DA0. Dates to be announced, but look for Pista HA5AO to return to eSwatini (Swaziland) during the second half of September 2019. Activity as 3DA0AO for 2 weeks from 80 to 10 metres using CW, RTTY and FT8.

Uganda, 5X. The Italian DXpedition Team will be active from Uganda during September/October 2019. Look for them as 5X0T using CW, SSB and RTTY and as 5X0X using FT8. More to follow.

Lesotho, 7P. Pista, HA5AO is returning to Lesotho as a volunteer to a local community group. Operation early October 2019 from 80 to 10 metres during his spare time. Log and OQRS on <http://ha5ao.com>

Burundi, 9U. Francesco, IV3TMM will be active as 9U3TMM between 31 August and 17 September from Bujumbura. Activity in 'holiday-style' from 60 to 6 metres using FT8, SSB and RTTY. QSL via home call.

Liberia, EL. During September/October the Italian DXpedition team will be active as A82C (CW and SSB) and as A82Z for digital modes. The team will be active with 11 operators and 5 stations using CW, SSB and digi. Real-Time logging. <http://www.i2ysb.com/idt/>

Rwanda, 9X. Harald, DF2WO, will once again be active as 9X2AW from Kigali between 4 and 16 November. He is currently preparing his 160 m antenna and will build a Hex-beam with Bamboo Sticks for working on 20, 17, 15, 12 and 10 metres using mainly digital modes (FT8, PSK31, JT65 and RTTY), CW and SSB. QSL via M0OXO or his OQRS. See QRZ.com for pictures.

Burkina Faso, XT2. Harald, DF2WO, will once again be active as XT2AW from Ouagadougou, Burkina Faso, between 2 and 20 December. Activity is usually holiday style on 160 - 10 metres using CW, SSB and the digital modes. He states that he works mostly on the digital modes (FT8, PSK31, JT65 and RTTY) and slow CW. QSL via M0OXO, direct or by M0OXO's OQRS [www.m0oxo.com/oqrs/](http://www.m0oxo.com/oqrs/).

## African Islands

IOTA Frequencies

CW: 28 040 24 920 21 040 18 098 14 040 10 114 7 030 3 530 kHz

SSB: 28 560 28 460 24 950 21 260 18 128 14 260 7 055 3 760 kHz

Seychelles, S7. Laci, HA7JTR will be operating as S79HA from Praslin Island from May 22 until May 29 with a focus on the low bands using CW and SSB. QSL via LoTW.



Pantelleria Isl, IH9. Simone, IV3NVN will be active as IH9/call from Pantelleria Isl (AF-018) between 22 and 27 May. The main goal is the CQ WPX CW Contest. QSL via IK2ILH, bureau or direct, LoTW. Previously, in 2014 he was also operating as IY9A during the WPX CW Contest, now back in a contest starting low-profile.

Sao Tome & Principe, S9. A large team with EA1ACP, EA1DVG, EA5BJ, EA5EL, EA7FTR, S92HP and EB7DX will be active as S9A from 6 to 18 June. Activity on HF using CW, SSB and FT8. QSL via EB7DX. More to follow.

Morocco, CN. Last year plans to activate Los Farallones Island, AF- 118NEW were announced. A few

weeks later it transpired that Navy and Government permission had not been given therefore that particular expedition was postponed. This year a new expedition to AF-118 has been announced with planning behind the scenes ongoing. A team is assembled with CN8QY as leader. Planned dates of activity are 25 to 30 July 2019. <https://5c9a.com/>

Madagascar, 5R. Giovanni, IZ2DPX will be active as 5R8PX from Nosy Be (AF-057) between 3 and 17 August. Operation on HF using SSB and digital. QSL via IK2DUW.

Cape Verde, D4. Harald, DF2WO, will once again be active as D44TWO from Praia, Santiago Island (AF-005), between 29 September and 13 October. Activity will be holiday style on 160 - 10 metres using CW, SSB and the digital modes. He states that he works mostly on the digital modes (FT8, PSK31, JT65 and RTTY) and slow CW. Equipment is a FT-450D into a home-made hex-beam and a dipole for 40 metres. QSL via M0OXO (OQRS available).

Mayotte, FH and Reunion, FR. Willi, DJ7RJ will once again be active as FH and FR/call during October 2019. Focus on top band from Mayotte. QSL via home call.

Mauritius, 3B8. Olof, G0CKV and others will be operating as 3B8MU during the CQ WW CW Contest (23 and 24 November). Operation before and after the contest mostly on the low bands between 18 and 29 November. QSL via M0OXO.

St Helena, ZD7. Oliver, W6NV will be active as ZD7W during the CQ WW CW contest (23 and 24 November). QSL via LoTW.

Comoros, D6. D68CCC Comores 2019 the New Adventure of the MDXC Guys. On the road again, and also this time on the road to Africa to reach their next QTH not far from Moroni. As a matter of fact, the leader Antonio, IZ8CCW, and the co-leader Gabriele, I2VGW, are happy to announce to the DXer Community the new adventure with the international MDXC team: Comores Islands 2019. The license is already in the leaders' hands as D68CCC and they planned to be on air from 20 October to 1 November. According to the evaluations that they have done, they are confident to give to a lot of DXers the possibility to work this country on the Low Bands, WARC and especially on the Digital modes. At the moment the team is already built by experienced operators: 20 people coming from 8 (eight) countries. On the air will be five stations, any mode, around the clock. For any further news and updates please stay tune: the official web site of this new great adventure is coming.

## Contest Calendar

This week's contests as compiled by Bruce Horn, WA7BNM. The period covered is 13 to 20 May 2019

4 States QRP Group Second Sunday Sprint  
00:00 - 02:00 UTC 13 May  
Geographic Focus: North America  
Participation: Worldwide  
Mode: CW, SSB  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op  
Exchange: Member: RS(T), state, province or country and member no; Non-member: RS(T), state, province or country and power  
Work stations: Once per band  
QSO Points: 1 point per QSO with non-member; 2 points per QSO with member

Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 15 May 2019  
E-mail logs to: (none)  
Post log summary at:  
<http://qrpcontest.com/4sqrp>  
Mail logs to: (none)  
Find rules at:  
[http://www.4sqrp.com/SSS/sss\\_rules.pdf](http://www.4sqrp.com/SSS/sss_rules.pdf)  
RSGB 80 m Club Championship, SSB  
19:00 - 20:30 UTC 13 May

Geographic Focus: United Kingdom  
Participation: Worldwide  
Awards: United Kingdom  
Mode: SSB  
Bands: 80 m Only  
Classes: (none)  
Exchange: RS and serial no  
QSO Points: 1 point per QSO  
Multipliers: (none)  
Score Calculation: (see rules)  
Submit logs by: 23:59 UTC 14 May 2019  
Upload log at: <http://www.rsgbcc.org/cgi-bin/hfenter.pl>  
Mail logs to: (none)  
Find rules at: <https://www.rsgbcc.org/hf/rules/2019/r80mcc.shtml>

Phone Fray: 02:30 - 03:00 UTC 15 May  
Geographic Focus: North America  
Participation: Worldwide  
Mode: SSB  
Bands: 160, 80, 40, 20, 15 m  
Classes: Single Op  
Max power: 100 watts  
Exchange: NA: Name and state, province or country; non-NA: Name  
Work stations: Once per band  
QSO Points: NA station: 1 point per QSO; non-NA station: 1 point per QSO with an NA station  
Multipliers: Each US state (including KH6/KL7) once per band; Each VE province/territory once per band; Each North American country (except W/VE) once per band  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 03:00 UTC 17 May 2019  
E-mail logs to: (none)  
Post log summary at: <http://www.3830scores.com>  
Mail logs to: (none)  
Find rules at: [http://www.perluma.com/Phone\\_Fray\\_Content\\_Rules.pdf](http://www.perluma.com/Phone_Fray_Content_Rules.pdf)

CWops Mini-CWT Test  
13:00 - 14:00 UTC and 19:00 - 20:00 UTC 15 May and 03:00 - 04:00 UTC 16 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Awards: Worldwide

Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op - QRP, low or high  
Max power: HP: >100 watts; LP: 100 watts; QRP: 5 watts  
Exchange: Member: Name and member no; non-Member: Name and state, province or country  
Work stations: Once per band  
QSO Points: 1 point per QSO  
Multipliers: Each call once  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 04:00 UTC 18 May 2019  
Post log summary at: <http://www.3830scores.com>  
Mail logs to: (none)  
Find rules at: <https://cwops.org/cwops-tests/>

NAQCC CW Sprint  
00:30 - 02:30 UTC 16 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: CW  
Bands: 80, 40, 20 m  
Classes: (none)  
Max power: 5 watts  
Exchange: RST, state, province or country and NAQCC no or power  
Work stations: Once per band  
QSO Points: 1 point per QSO with non-member; 2 points per QSO with member  
Multipliers: Each state, province, or country once; Key Type Mult: 2 x if straight key, 1.5 x if bug, 1 x if other  
Score Calculation: Total score = total QSO points x total mults x key type mult  
Submit logs by: 23:59 UTC 19 May 2019  
E-mail logs to: [naqcc33@windstream.net](mailto:naqcc33@windstream.net) and [jcoreyc@gmail.com](mailto:jcoreyc@gmail.com)  
Upload log at: [http://naqcc.info/sprint\\_submit\\_log.html](http://naqcc.info/sprint_submit_log.html)  
Mail logs to: (none)  
Find rules at: <http://naqcc.info/sprint/sprint201905.html>

NCCC RTTY Sprint  
01:45 - 02:15 UTC 17 May  
Geographic Focus: North America  
Participation: Worldwide  
Mode: RTTY



Bands: (see rules)  
Classes: (none)  
Exchange: Serial no, name and QTH  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 19 May 2019  
E-mail logs to: (none)  
Post log summary at:  
<http://www.3830scores.com/>  
Mail logs to: (none)  
Find rules at:  
<http://www.ncccsprint.com/rttyns.html>

NCCC Sprint  
02:30 - 03:00 UTC 17 May  
Geographic Focus: North America  
Participation: Worldwide  
Mode: CW  
Bands: (see rules)  
Classes: (none)  
Exchange: Serial no, name and QTH  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 19 May 2019  
E-mail logs to: (none)  
Post log summary at:  
<http://www.3830scores.com/>  
Mail logs to: (none)  
Find rules at:  
<http://www.ncccsprint.com/rules.html>

UN DX Contest  
06:00 - 21:00 UTC 18 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: CW, SSB  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op All Band - CW or mixed;  
Single Op High Bands Mixed; Single Op Low Bands Mixed; Multi-Op Single Transmitter; SWL  
Exchange: Kazakhstan: RS(T) and District Code; non-Kazakhstan: RS(T) and QSO no  
Work stations: Once per band per mode  
QSO Points: 2 points per QSO with same country; 3 points per QSO with different country, same continent; 5 points per QSO with different continent; non-Kazakhstan: 10 points per QSO with Kazakhstan station  
Multipliers: Each KDA district once per band; Each DXCC country once per band

Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 2 June 2019  
E-mail logs to: [log@undxc.kz](mailto:log@undxc.kz)  
Upload log at: <http://undxc.kz/otchuyoty-2/zagruzit-log/>  
Mail logs to: (none)  
Find rules at: <http://undxc.kz/bez-rubriki/2015-2/>

NZART Sangster Shield Contest  
08:00 - 11:00 UTC 18 May and 08:00 - 11:00 UTC 19 May  
Geographic Focus: New Zealand  
Participation: Worldwide  
Mode: CW  
Bands: 80 m Only  
Classes: Single Op QRP; Single Op Overseas  
Max power: non-ZL: >5 watts; ZL: 5 watts  
Exchange: ZL: RST, serial no and Branch no; non-ZL: RST and serial no  
Work stations: Once per half hour  
QSO Points: (see rules)  
Multipliers: ZL branches once  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 15 June 2019  
E-mail logs to: [sangster@nzart.org.nz](mailto:sangster@nzart.org.nz)  
Mail logs to: Contest Manager, Glenn Kingston ZL2KZ, 53 Tannadyce Street, Wellington 6022, New Zealand  
Find rules at:  
<http://www.nzart.org.nz/activities/contest-rules/rules-sangster-shield/>

Portuguese Navy Day Contest  
09:00 UTC 18 May to 17:00 UTC 20 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: CW, SSB, Digital  
Bands: 80, 40, 20, 15, 10 m  
Classes: Single Op – CW, SSB, digital or mixed;  
Exchange: NRA Club: RS(T) and member no; non-member: RS(T) and QSO no  
Work stations: Once per band per mode per day  
QSO Points: See rules  
Multipliers: See rules  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 23:00 UTC 4 June 2019

E-mail logs to: [contest@nra.pt](mailto:contest@nra.pt)  
Mail logs to: (none)  
Find rules at: <http://www.nra.pt/portuguese-navy-day-contest---2019.html>

His Majesty the King of Spain CW Contest  
12:00 UTC 18 May to 12:00 UTC 19 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Awards: Worldwide  
Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Op All Band - QRP, low or high;  
Single Op Single Band; Multi-Op - low or high  
Max power: HP: >100 watts; LP: 100 watts;  
QRP: 5 watts  
Exchange: EA: RST and province; non-EA: RST  
and serial no  
Work stations: Once per band  
QSO Points: (see rules)  
Multipliers: Each EA province once per band;  
Each EADX100 entity once per band; Each  
special (EA0) station once per band  
Score Calculation: Total score = total QSO  
points x total mults  
Submit logs by: 3 June 2019  
E-mail logs to: (none)  
Upload log at:  
<http://concursos.ure.es/en/logs/>  
Mail logs to: (none)  
Find rules at: <http://concursos.ure.es/en/s-m-el-rey-de-espana-cw/bases/>

EU PSK DX Contest  
12:00 UTC 18 May to 12:00 UTC 19 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Awards: Worldwide  
Mode: BPSK63  
Bands: 80, 40, 20, 15, 10 m  
Classes: Single Op All Band – 24 h or 12 h - low  
or high; Single Op Low Bands - low or high;  
Single Op High Bands - low or high; Single Op  
Single Band - low or high; Multi-Single - YM or  
OM; Multi-Multi - YM or OM  
Max power: HP: 100 watts; LP: 10 watts  
Exchange: EU: RST and EU area code; non-EU:  
RST and QSO no  
QSO Points: 1 point per QSO with same  
country; 2 points per QSO with different  
country, same continent; 3 points per QSO

with different continent; non-EU Stations: 5  
points per QSO with EU  
Multipliers: Each DXCC country once per band;  
Each EU area code once per band  
Score Calculation: Total score = total QSO  
points x total mults  
Submit logs by: 24 May 2019  
Upload log at:  
[http://ua9qcq.com/en/submit\\_log.php?lang=en](http://ua9qcq.com/en/submit_log.php?lang=en)  
Mail logs to: (none)  
Find rules at:  
<http://www.eupsk.com/eupskdx/eupskdxrules.pdf>

Aegean RTTY Contest  
12:00 UTC 18 May to 12:00 UTC 19 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Awards: Worldwide  
Mode: RTTY  
Bands: 80, 40, 20, 15, 10 m  
Classes: Single Op; Multi-Op  
Exchange: RST and QSO no  
Work stations: Once per band  
QSO Points: (see rules)  
Multipliers: (none)  
Score Calculation: Total score = total QSO  
points  
Submit logs by: 15 June 2019  
E-mail logs to: [aegeanrtty@gmail.com](mailto:aegeanrtty@gmail.com)  
Mail logs to: Aegean RTTY Contest, P.O. Box  
04, 83100 Samos Hellas, Greece  
Find rules at:  
<http://www.aegeandxgroup.gr/dx-pdf/AEGEAN%20RTTY%20CONTEST%20RULES.pdf>

Feld Hell Sprint  
16:00 – 17:59 UTC and 20:00 – 21:59 UTC 18  
May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: Feld Hell  
Bands: 160, 80, 40, 20, 15, 10, 6 m  
Classes: (none)  
Max power: Standard: 100 watts; QRP: 5 watts  
Exchange: (see rules)  
Work stations: Once per band  
QSO Points: (see rules)  
Bonus Points: (see rules)



Multipliers: (see rules)  
Score Calculation: (see rules)  
Submit logs by: 21 May 2019  
Upload log at:  
<https://sites.google.com/site/feldhellclub/>  
Mail logs to: (none)  
Find rules at:  
<https://sites.google.com/site/feldhellclub/Home/contests/sprints/hamvention-sprint>

Baltic Contest  
21:00 UTC 18 May to 02:00 UTC 19 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Awards: Worldwide  
Mode: CW, SSB  
Bands: 80 m Only  
Classes: Single Op CW/SSB; Single Op 2 Hrs CW/SSB; Single Op CW; Single Op SSB; Multi-Single; SWL  
Exchange: RS(T) and serial no  
Work stations: Once per mode  
QSO Points: ES/YL/LY Stations: 1 point per QSO with EU; ES/YL/LY Stations: 2 points per QSO with non-EU; EU Stations: 10 points per QSO with ES/YL/LY; EU Stations: 1 point per QSO with non-EU; non-EU Stations: 20 points per QSO with ES/YL/LY; non-EU Stations: 1 point per QSO with non-ES/YL/LY  
Multipliers: (none)  
Score Calculation: Total score = total QSO points  
Submit logs by: 9 June 2019  
E-mail logs to: [balticcontest@inbox.lt](mailto:balticcontest@inbox.lt)

Upload log at: <http://www.lrsf.lt/lt/bc-log-uploader/>  
Mail logs to: Baltic Contest, P.O. Box 210, LT-44003 Kaunas, Lithuania  
Find rules at:  
<http://www.lrsf.lt/en/balticcontestrules/>  
  
Run for the Bacon QRP Contest  
01:00 - 03:00 UTC 20 May  
Geographic Focus: Worldwide  
Participation: Worldwide  
Mode: CW  
Bands: 160, 80, 40, 20, 15, 10 m  
Classes: Single Band; All Band  
Max power: 5 watts  
Exchange: RST, state, province or country and member no or power  
Work stations: Once per band  
QSO Points: 1 point per QSO with non-member; 3 points per QSO with member on same continent; 5 points per QSO with member on different continent  
Multipliers: Each state, province, or country once; Multiply mults by 2 if >50 members worked  
Score Calculation: Total score = total QSO points x total mults  
Submit logs by: 26 May 2019  
E-mail logs to: (none)  
Upload log at:  
<http://qrpcontest.com/pigrun/autolog.php>  
Mail logs to: (none)  
Find rules at: <http://qrpcontest.com/pigrun/>

### Next Week's Contests

SKCC Sprint, 00:00 - 02:00 UTC 22 May  
Phone Fray, 02:30 - 03:00 UTC 22 May  
CWops Mini-CWT Test, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 22 May and 03:00 - 04:00 UTC 23 May  
RSGB 80 m Club Championship, Data, 20:00 - 20:30 UTC 22 May  
NCCC RTTY Sprint, 01:45 - 02:15 UTC 24 May  
NCCC Sprint, 02:30 - 03:00 UTC 24 May  
CQ WPX CW Contest, 00:00 UTC 25 May to 23:59 UTC 26 May  
QCX Challenge, 13:00 - 14:00 UTC and 19:00 - 20:00 UTC 27 May and 03:00 - 04:00 UTC 28 May

*Items used with acknowledgement to the ARRL Letter, the ARRL DX News, the ARRL Contest Update, OPDX Bulletin, 425 DX Bulletin, DXNL Newsletter, WIA-News, the RSGB News, Southgate ARC News,*